

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/534,043
Source: PCT
Date Processed by STIC: 6/20/06

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PCT

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DATE: 06/20/2006

PATENT APPLICATION: US/10/534,043

TIME: 13:33:12

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\06202006\J534043.raw

3 <110> APPLICANT: SAKAGUCHI, Nobuo
 5 <120> TITLE OF INVENTION: TRANSGENIC MAMMAL CARRYING GANP GENE TRANSFERRED THEREINTO
 AND
 6 UTILIZATION THEREOF
 8 <130> FILE REFERENCE: 4456-0104PUS1
 10 <140> CURRENT APPLICATION NUMBER: US 10/534,043
 11 <141> CURRENT FILING DATE: 2005-05-05
 13 <150> PRIOR APPLICATION NUMBER: PCT/JP03/014221
 14 <151> PRIOR FILING DATE: 2003-11-07
 16 <150> PRIOR APPLICATION NUMBER: PCT/JP02/11598
 17 <151> PRIOR FILING DATE: 2002-11-07
 19 <160> NUMBER OF SEQ ID NOS: 105
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 6429
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Mus musculus
 29 <220> FEATURE:
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (384)..(6299)
 33 <400> SEQUENCE: 1
 34 gttgcggtgc ggtgggcccg gtagaggctg cacgcagact gtgggcgagc acaagcgctg 60
 36 gcgacagtgg ccgtatctgg cggacttgc cctccctccg cggcctccgc tgtcccttgt 120
 38 gtctttgccc agttgctgaa ggccttcact agtcttcgct cgaaggcgtc tgttaacct 180
 40 gcggccggct tccggagtgt taagcatcgg ggataaaaag ctattatttc tagaccaggg 240
 42 catcgcaagt tcgagttacc gggagaaaaa tgagatggtc atcctgagga tgaaggagag 300
 44 cttcccctgg caacagataa tttaaagagg agagctactt gtgtatagtc catatttatt 360
 46 gccttcagat aattggcttg aag atg cac ccg gtg aac ccc ttc gga ggc agc 413
 47 Met His Pro Val Asn Pro Phe Gly Gly Ser
 48 1 5 10
 50 agc cca agt gct ttt gcg gta tct tcc agc acc acg gga aca tat cag 461
 51 Ser Pro Ser Ala Phe Ala Val Ser Ser Ser Thr Thr Gly Thr Tyr Gln
 52 15 20 25
 54 act aaa tca cca ttt cga ttt ggc cag cct tcc ctt ttt gga cag aac 509
 55 Thr Lys Ser Pro Phe Arg Phe Gly Gln Pro Ser Leu Phe Gly Gln Asn
 56 30 35 40
 58 agc aca ccc agc aag agc ctg gcg ttt tca caa gta cca agc ttt gca 557
 59 Ser Thr Pro Ser Lys Ser Leu Ala Phe Ser Gln Val Pro Ser Phe Ala
 60 45 50 55
 62 aca ccc tct gga gga agc cat tct tcc tcc ttg cca gca ttt gga ctc 605
 63 Thr Pro Ser Gly Gly Ser His Ser Ser Ser Leu Pro Ala Phe Gly Leu
 64 60 65 70
 66 acc caa acc tca agt gtg gga ctc ttc tct agt ctc gaa tcc aca cct 653
 67 Thr Gln Thr Ser Ser Val Gly Leu Phe Ser Ser Leu Glu Ser Thr Pro

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| 68 | 75 | | | | 80 | | | | | 85 | | | | 90 | | | | | |
| 70 | tct | ttc | gca | gct | act | tcg | agt | tcc | tct | gtg | ccc | ggc | aat | acg | gca | ttc | | | 701 |
| 71 | Ser | Phe | Ala | Ala | Thr | Ser | Ser | Ser | Ser | Val | Pro | Gly | Asn | Thr | Ala | Phe | | | |
| 72 | | | | | 95 | | | | | 100 | | | | 105 | | | | | |
| 74 | agc | ttt | aag | tca | acc | tct | agc | gtt | ggg | gtt | ttc | cca | agt | ggc | gct | act | | | 749 |
| 75 | Ser | Phe | Lys | Ser | Thr | Ser | Ser | Val | Gly | Val | Phe | Pro | Ser | Gly | Ala | Thr | | | |
| 76 | | | | 110 | | | | | 115 | | | | | 120 | | | | | |
| 78 | ttt | ggg | cca | gaa | acc | gga | gaa | gta | gca | ggg | tct | ggc | ttt | cgg | aag | acg | | | 797 |
| 79 | Phe | Gly | Pro | Glu | Thr | Gly | Glu | Val | Ala | Gly | Ser | Gly | Phe | Arg | Lys | Thr | | | |
| 80 | | | 125 | | | | | 130 | | | | | 135 | | | | | | |
| 82 | gaa | ttc | aag | ttt | aaa | cct | ctg | gaa | aat | gca | gtc | ttc | aaa | ccg | ata | ccg | | | 845 |
| 83 | Glu | Phe | Lys | Phe | Lys | Pro | Leu | Glu | Asn | Ala | Val | Phe | Lys | Pro | Ile | Pro | | | |
| 84 | | 140 | | | | | 145 | | | | | 150 | | | | | | | |
| 86 | ggg | cct | gag | tca | gag | cca | gaa | aaa | acc | cag | agc | cag | att | tct | tct | gga | | | 893 |
| 87 | Gly | Pro | Glu | Ser | Glu | Pro | Glu | Lys | Thr | Gln | Ser | Gln | Ile | Ser | Ser | Gly | | | |
| 88 | 155 | | | | 160 | | | | | 165 | | | | 170 | | | | | |
| 90 | ttt | ttt | aca | ttt | tcc | cat | ccc | gtt | ggg | agg | ggg | tct | gga | ggc | ctg | acc | | | 941 |
| 91 | Phe | Phe | Thr | Phe | Ser | His | Pro | Val | Gly | Ser | Gly | Ser | Gly | Gly | Leu | Thr | | | |
| 92 | | | | | 175 | | | | 180 | | | | | 185 | | | | | |
| 94 | cct | ttt | tct | ttc | cca | cag | gtg | aca | aat | agt | tcg | gtg | act | agc | tca | agt | | | 989 |
| 95 | Pro | Phe | Ser | Phe | Pro | Gln | Val | Thr | Asn | Ser | Ser | Val | Thr | Ser | Ser | Ser | | | |
| 96 | | | 190 | | | | | 195 | | | | | 200 | | | | | | |
| 98 | ttt | atc | ttt | tcg | aaa | cca | gtt | act | agt | aat | act | cct | gcc | ttt | gcc | tct | | | 1037 |
| 99 | Phe | Ile | Phe | Ser | Lys | Pro | Val | Thr | Ser | Asn | Thr | Pro | Ala | Phe | Ala | Ser | | | |
| 100 | | | 205 | | | | 210 | | | | | | 215 | | | | | | |
| 102 | cct | ttg | tct | aac | caa | aat | gta | gaa | gaa | gag | aag | agg | gtt | tct | acg | tca | | | 1085 |
| 103 | Pro | Leu | Ser | Asn | Gln | Asn | Val | Glu | Glu | Glu | Lys | Arg | Val | Ser | Thr | Ser | | | |
| 104 | | 220 | | | | | 225 | | | | | 230 | | | | | | | |
| 106 | gcg | ttt | gga | agc | tca | aac | agt | agc | ttc | agt | act | ttc | ccc | aca | gcg | tca | | | 1133 |
| 107 | Ala | Phe | Gly | Ser | Ser | Asn | Ser | Ser | Phe | Ser | Thr | Phe | Pro | Thr | Ala | Ser | | | |
| 108 | 235 | | | | 240 | | | | | 245 | | | | 250 | | | | | |
| 110 | cca | gga | tct | ttg | ggg | gag | ccc | ttc | cca | gct | aac | aaa | cca | agc | ctc | cgc | | | 1181 |
| 111 | Pro | Gly | Ser | Leu | Gly | Glu | Pro | Phe | Pro | Ala | Asn | Lys | Pro | Ser | Leu | Arg | | | |
| 112 | | | | 255 | | | | 260 | | | | | 265 | | | | | | |
| 114 | caa | gga | tgt | gag | gaa | gcc | atc | tcc | cag | gtg | gag | cca | ctt | ccc | acc | ctc | | | 1229 |
| 115 | Gln | Gly | Cys | Glu | Glu | Ala | Ile | Ser | Gln | Val | Glu | Pro | Leu | Pro | Thr | Leu | | | |
| 116 | | | 270 | | | | | 275 | | | | | 280 | | | | | | |
| 118 | atg | aag | gga | tta | aag | agg | aaa | gag | gac | cag | gat | cgc | tcc | ccg | agg | aga | | | 1277 |
| 119 | Met | Lys | Gly | Leu | Lys | Arg | Lys | Glu | Asp | Gln | Asp | Arg | Ser | Pro | Arg | Arg | | | |
| 120 | | 285 | | | | | 290 | | | | | 295 | | | | | | | |
| 122 | cat | tgc | cac | gag | gca | gca | gaa | gac | cct | gat | ccc | ctg | tcc | agg | ggc | gac | | | 1325 |
| 123 | His | Cys | His | Glu | Ala | Ala | Glu | Asp | Pro | Asp | Pro | Leu | Ser | Arg | Gly | Asp | | | |
| 124 | | 300 | | | | | 305 | | | | | 310 | | | | | | | |
| 126 | cat | ccc | cca | gat | aaa | cgg | cca | gtc | cgc | ctc | aac | aga | ccc | cgg | gga | ggg | | | 1373 |
| 127 | His | Pro | Pro | Asp | Lys | Arg | Pro | Val | Arg | Leu | Asn | Arg | Pro | Arg | Gly | Gly | | | |
| 128 | 315 | | | | 320 | | | | | 325 | | | | 330 | | | | | |
| 130 | act | ttg | ttt | ggc | cgg | aca | ata | cag | gag | gtc | ttc | aaa | agc | aat | aaa | gag | | | 1421 |
| 131 | Thr | Leu | Phe | Gly | Arg | Thr | Ile | Gln | Glu | Val | Phe | Lys | Ser | Asn | Lys | Glu | | | |
| 132 | | | | 335 | | | | 340 | | | | | 345 | | | | | | |

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|-----|---|------|
| 134 | gca ggc cgc ctg ggc agc aag gaa tcc aag gag agt ggc ttt gcg gaa | 1469 |
| 135 | Ala Gly Arg Leu Gly Ser Lys Glu Ser Lys Glu Ser Gly Phe Ala Glu | |
| 136 | 350 355 360 | |
| 138 | cct ggg gaa agt gac cac gcg gcc cca gga ggg agt cag tcc acc | 1517 |
| 139 | Pro Gly Glu Ser Asp His Ala Val Pro Gly Gly Ser Gln Ser Thr | |
| 140 | 365 370 375 | |
| 142 | atg gta cct tcc cgc ctt cca gct gtg act aaa gag gaa gaa gaa agt | 1565 |
| 143 | Met Val Pro Ser Arg Leu Pro Ala Val Thr Lys Glu Glu Glu Glu Ser | |
| 144 | 380 385 390 | |
| 146 | aga gat gag aaa gaa gat tct ctc agg gga aag tct gtg cgc cag agt | 1613 |
| 147 | Arg Asp Glu Lys Glu Asp Ser Leu Arg Gly Lys Ser Val Arg Gln Ser | |
| 148 | 395 400 405 410 | |
| 150 | aag cga agg gaa gag tgg atc tac agc ctc ggg gcc gtg tct tct tta | 1661 |
| 151 | Lys Arg Arg Glu Glu Trp Ile Tyr Ser Leu Gly Gly Val Ser Ser Leu | |
| 152 | 415 420 425 | |
| 154 | gag ctc aca gcc atc cag tgc aag aac atc ccc gac tac ctc aac gac | 1709 |
| 155 | Glu Leu Thr Ala Ile Gln Cys Lys Asn Ile Pro Asp Tyr Leu Asn Asp | |
| 156 | 430 435 440 | |
| 158 | aga gcc atc ctg gag aaa cac ttc agc aaa atc gct aaa gtc cag cgg | 1757 |
| 159 | Arg Ala Ile Leu Glu Lys His Phe Ser Lys Ile Ala Lys Val Gln Arg | |
| 160 | 445 450 455 | |
| 162 | gtc ttc acc aga cgc agc aag aag ctc gcc gtg att cat ttt ttc gac | 1805 |
| 163 | Val Phe Thr Arg Arg Ser Lys Lys Leu Ala Val Ile His Phe Phe Asp | |
| 164 | 460 465 470 | |
| 166 | cac gca tcg gca gcc ctg gct agg aag aag ggg aaa ggt ctg cat aag | 1853 |
| 167 | His Ala Ser Ala Ala Leu Ala Arg Lys Lys Gly Lys Gly Leu His Lys | |
| 168 | 475 480 485 490 | |
| 170 | gac gtg gtt atc ttt tgg cac aag aag aaa ata agt ccc agc aag aaa | 1901 |
| 171 | Asp Val Val Ile Phe Trp His Lys Lys Lys Ile Ser Pro Ser Lys Lys | |
| 172 | 495 500 505 | |
| 174 | ctc ttt ccc ctg aag gag aag ctt ggt gag agt gaa gcc agc cag ggc | 1949 |
| 175 | Leu Phe Pro Leu Lys Glu Lys Leu Gly Glu Ser Glu Ala Ser Gln Gly | |
| 176 | 510 515 520 | |
| 178 | atc gag gac tcc ccc ttt cag cac tcg cct ctc agc aag ccc atc gtg | 1997 |
| 179 | Ile Glu Asp Ser Pro Phe Gln His Ser Pro Leu Ser Lys Pro Ile Val | |
| 180 | 525 530 535 | |
| 182 | agg cct gca gcc ggc agc ctc agc aaa agc tct cca gtg aag aag | 2045 |
| 183 | Arg Pro Ala Ala Gly Ser Leu Ser Lys Ser Ser Pro Val Lys Lys | |
| 184 | 540 545 550 | |
| 186 | ccg agt ctt ctg aag atg cac cag ttt gag gcg gat cct ttt gac tct | 2093 |
| 187 | Pro Ser Leu Leu Lys Met His Gln Phe Glu Ala Asp Pro Phe Asp Ser | |
| 188 | 555 560 565 570 | |
| 190 | gga tct gag ggc tcc gag ggc ctt ggt tct tgc gtg tca tct ctt agc | 2141 |
| 191 | Gly Ser Glu Gly Ser Glu Gly Leu Gly Ser Cys Val Ser Ser Leu Ser | |
| 192 | 575 580 585 | |
| 194 | acc ctg ata ggg act gtg gca gac aca tct gag gag aag tac cgc ctt | 2189 |
| 195 | Thr Leu Ile Gly Thr Val Ala Asp Thr Ser Glu Glu Lys Tyr Arg Leu | |
| 196 | 590 595 600 | |
| 198 | ctg gac cag aga gac cgc atc atg cgg caa gct cga gtg aag agg acg | 2237 |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 199 | Leu | Asp | Gln | Arg | Asp | Arg | Ile | Met | Arg | Gln | Ala | Arg | Val | Lys | Arg | Thr | |
| 200 | | | 605 | | | | | 610 | | | | | 615 | | | | |
| 202 | gac | ctg | gac | aaa | gcc | agg | gca | ttt | gtt | ggg | act | tgc | cct | gac | atg | tgt | 2285 |
| 203 | Asp | Leu | Asp | Lys | Ala | Arg | Ala | Phe | Val | Gly | Thr | Cys | Pro | Asp | Met | Cys | |
| 204 | | | 620 | | | | | 625 | | | | | 630 | | | | |
| 206 | ccc | gag | aag | gag | cgg | tac | ttg | agg | gag | acc | cgg | agc | cag | ctg | agc | gtg | 2333 |
| 207 | Pro | Glu | Lys | Glu | Arg | Tyr | Leu | Arg | Glu | Thr | Arg | Ser | Gln | Leu | Ser | Val | |
| 208 | 635 | | | | | | 640 | | | | | 645 | | | | 650 | |
| 210 | ttt | gaa | gtt | gtc | cca | ggg | act | gac | cag | gtg | gac | cat | gca | gca | gcc | gtg | 2381 |
| 211 | Phe | Glu | Val | Val | Pro | Gly | Thr | Asp | Gln | Val | Asp | His | Ala | Ala | Ala | Val | |
| 212 | | | | | 655 | | | | | 660 | | | | | | 665 | |
| 214 | aag | gag | tac | agc | cgg | tcc | tct | gca | gat | cag | gag | gag | ccc | ctg | cca | cat | 2429 |
| 215 | Lys | Glu | Tyr | Ser | Arg | Ser | Ser | Ala | Asp | Gln | Glu | Glu | Pro | Leu | Pro | His | |
| 216 | | | | | 670 | | | | | 675 | | | | | 680 | | |
| 218 | gag | ctg | aga | ccc | tca | gca | gtt | ctc | agc | agg | acc | atg | gac | tac | ctg | gtg | 2477 |
| 219 | Glu | Leu | Arg | Pro | Ser | Ala | Val | Leu | Ser | Arg | Thr | Met | Asp | Tyr | Leu | Val | |
| 220 | | | | | 685 | | | | | 690 | | | | | | 695 | |
| 222 | acc | cag | atc | atg | gac | caa | aag | gaa | ggc | agc | ctt | cgg | gat | tgg | tat | gac | 2525 |
| 223 | Thr | Gln | Ile | Met | Asp | Gln | Lys | Glu | Gly | Ser | Leu | Arg | Asp | Trp | Tyr | Asp | |
| 224 | | | 700 | | | | | 705 | | | | | 710 | | | | |
| 226 | ttc | gtg | tgg | aac | cgc | acc | cgg | ggt | ata | cgg | aag | gac | ata | aca | cag | cag | 2573 |
| 227 | Phe | Val | Trp | Asn | Arg | Thr | Arg | Gly | Ile | Arg | Lys | Asp | Ile | Thr | Gln | Gln | |
| 228 | 715 | | | | | 720 | | | | | 725 | | | | | 730 | |
| 230 | cac | ctc | tgt | gat | ccc | ctg | acg | gtg | tct | ctg | atc | gag | aag | tgt | acc | cga | 2621 |
| 231 | His | Leu | Cys | Asp | Pro | Leu | Thr | Val | Ser | Leu | Ile | Glu | Lys | Cys | Thr | Arg | |
| 232 | | | | | 735 | | | | | | 740 | | | | | 745 | |
| 234 | ttt | cac | att | cac | tgt | gcc | cac | ttt | atg | tgt | gag | gag | cct | atg | tct | tcc | 2669 |
| 235 | Phe | His | Ile | His | Cys | Ala | His | Phe | Met | Cys | Glu | Glu | Pro | Met | Ser | Ser | |
| 236 | | | | | 750 | | | | | 755 | | | | | | 760 | |
| 238 | ttt | gat | gcc | aag | atc | aac | aat | gag | aac | atg | acc | aag | tgt | cta | cag | agt | 2717 |
| 239 | Phe | Asp | Ala | Lys | Ile | Asn | Asn | Glu | Asn | Met | Thr | Lys | Cys | Leu | Gln | Ser | |
| 240 | | | | | 765 | | | | | 770 | | | | | | 775 | |
| 242 | ctg | aag | gag | atg | tac | cag | gac | ctg | agg | aac | aag | ggt | gtt | ttt | tgt | gcc | 2765 |
| 243 | Leu | Lys | Glu | Met | Tyr | Gln | Asp | Leu | Arg | Asn | Lys | Gly | Val | Phe | Cys | Ala | |
| 244 | | | 780 | | | | | 785 | | | | | 790 | | | | |
| 246 | agt | gaa | gca | gag | ttt | cag | ggc | tac | aat | gtc | ctg | ctt | aat | ctc | aac | aaa | 2813 |
| 247 | Ser | Glu | Ala | Glu | Phe | Gln | Gly | Tyr | Asn | Val | Leu | Leu | Asn | Leu | Asn | Lys | |
| 248 | 795 | | | | | 800 | | | | | | 805 | | | | 810 | |
| 250 | gga | gac | att | ttg | aga | gaa | gtg | cag | cag | ttc | cac | cct | gac | gtt | agg | aac | 2861 |
| 251 | Gly | Asp | Ile | Leu | Arg | Glu | Val | Gln | Gln | Phe | His | Pro | Asp | Val | Arg | Asn | |
| 252 | | | | | 815 | | | | | | 820 | | | | | 825 | |
| 254 | tcc | cca | gag | gtg | aac | ttc | gct | gtc | cag | gct | ttt | gct | gca | ttg | aac | agc | 2909 |
| 255 | Ser | Pro | Glu | Val | Asn | Phe | Ala | Val | Gln | Ala | Phe | Ala | Ala | Leu | Asn | Ser | |
| 256 | | | | | 830 | | | | | | 835 | | | | | 840 | |
| 258 | aat | aat | ttt | gtg | aga | ttt | ttc | aaa | ctg | gtt | cag | tca | gct | tct | tac | ctg | 2957 |
| 259 | Asn | Asn | Phe | Val | Arg | Phe | Phe | Lys | Leu | Val | Gln | Ser | Ala | Ser | Tyr | Leu | |
| 260 | | | | | 845 | | | | | | 850 | | | | | 855 | |
| 262 | aat | gcg | tgc | ctg | tta | cac | tgt | tac | ttt | aat | cag | atc | cgc | aag | gat | gcc | 3005 |
| 263 | Asn | Ala | Cys | Leu | Leu | His | Cys | Tyr | Phe | Asn | Gln | Ile | Arg | Lys | Asp | Ala | |

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|-----|---|------|------|------|
| 264 | 860 | 865 | 870 | |
| 266 | ctc cgg gca ctc aat gtt gct tat act gta agc aca cag cgc tct acc | | | 3053 |
| 267 | Leu Arg Ala Leu Asn Val Ala Tyr Thr Val Ser Thr Gln Arg Ser Thr | | | |
| 268 | 875 | 880 | 885 | 890 |
| 270 | gtc ttc ccc ctg gat ggt gtc gtc cgc atg ctg ctg ttc aga gat agt | | | 3101 |
| 271 | Val Phe Pro Leu Asp Gly Val Val Arg Met Leu Leu Phe Arg Asp Ser | | | |
| 272 | | 895 | 900 | 905 |
| 274 | gaa gag gcg aca aac ttc ctc aat tac cat ggc ctc act gta gct gat | | | 3149 |
| 275 | Glu Glu Ala Thr Asn Phe Leu Asn Tyr His Gly Leu Thr Val Ala Asp | | | |
| 276 | | 910 | 915 | 920 |
| 278 | ggc tgt gtt gag ctg aat cgg tcg gca ttc ttg gaa ccg gag gga tta | | | 3197 |
| 279 | Gly Cys Val Glu Leu Asn Arg Ser Ala Phe Leu Glu Pro Glu Gly Leu | | | |
| 280 | | 925 | 930 | 935 |
| 282 | tgc aag gcc agg aag tca gtg ttt att ggc cgg aag ctg acg gtg tca | | | 3245 |
| 283 | Cys Lys Ala Arg Lys Ser Val Phe Ile Gly Arg Lys Leu Thr Val Ser | | | |
| 284 | | 940 | 945 | 950 |
| 286 | gtt ggg gaa gtt gtg aat gga ggg ccg ttg ccc cct gtt cct cgc cat | | | 3293 |
| 287 | Val Gly Glu Val Val Asn Gly Gly Pro Leu Pro Pro Val Pro Arg His | | | |
| 288 | 955 | 960 | 965 | 970 |
| 290 | aca cct gtg tgc agc ttc aac tcc cag aat aag tac gtt gga gag agc | | | 3341 |
| 291 | Thr Pro Val Cys Ser Phe Asn Ser Gln Asn Lys Tyr Val Gly Glu Ser | | | |
| 292 | | 975 | 980 | 985 |
| 294 | ctg gct acg gag ctg ccc atc agc act cag aga gct ggt gga gac cca | | | 3389 |
| 295 | Leu Ala Thr Glu Leu Pro Ile Ser Thr Gln Arg Ala Gly Gly Asp Pro | | | |
| 296 | | 990 | 995 | 1000 |
| 298 | gca ggt ggt ggc aga gga gag gac tgt gag gca gag gtg gac ttg | | | 3434 |
| 299 | Ala Gly Gly Gly Arg Gly Glu Asp Cys Glu Ala Glu Val Asp Leu | | | |
| 300 | | 1005 | 1010 | 1015 |
| 302 | cca aca ttg gcg gtc ctc cca cag ccg cct cct gca tcc tca gcc | | | 3479 |
| 303 | Pro Thr Leu Ala Val Leu Pro Gln Pro Pro Pro Ala Ser Ser Ala | | | |
| 304 | | 1020 | 1025 | 1030 |
| 306 | acg ccg gcg ctt cat gtc cag cca ctg gcc cca gcc gca gca ccc | | | 3524 |
| 307 | Thr Pro Ala Leu His Val Gln Pro Leu Ala Pro Ala Ala Ala Pro | | | |
| 308 | | 1035 | 1040 | 1045 |
| 310 | agc ctt ctc cag gcc tcc acg cag cct gag gtg ctg ctt cca aag | | | 3569 |
| 311 | Ser Leu Leu Gln Ala Ser Thr Gln Pro Glu Val Leu Leu Pro Lys | | | |
| 312 | | 1050 | 1055 | 1060 |
| 314 | cct gcg cct gtg tac tct gac tcg gac ctg gta cag gtg gtg gac | | | 3614 |
| 315 | Pro Ala Pro Val Tyr Ser Asp Ser Asp Leu Val Gln Val Val Asp | | | |
| 316 | | 1065 | 1070 | 1075 |
| 318 | gag ctc atc cag gag gct ctg caa gtg gac tgt gag gaa gtc agc | | | 3659 |
| 319 | Glu Leu Ile Gln Glu Ala Leu Gln Val Asp Cys Glu Glu Val Ser | | | |
| 320 | | 1080 | 1085 | 1090 |
| 322 | tcc gct ggg gca gcc tac gta gcc gca gct ctg ggc gtt tcc aat | | | 3704 |
| 323 | Ser Ala Gly Ala Ala Tyr Val Ala Ala Ala Leu Gly Val Ser Asn | | | |
| 324 | | 1095 | 1100 | 1105 |
| 326 | gct gct gtg gag gat ctg att act gct gcg acc acg ggc att ctg | | | 3749 |
| 327 | Ala Ala Val Glu Asp Leu Ile Thr Ala Ala Thr Thr Gly Ile Leu | | | |
| 328 | | 1110 | 1115 | 1120 |

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/534,043

DATE: 06/20/2006

TIME: 13:33:13

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\06202006\J534043.raw

L:2633 M:283 W: Missing Blank Line separator, <400> field identifier
L:3042 M:283 W: Missing Blank Line separator, <220> field identifier
L:3152 M:283 W: Missing Blank Line separator, <220> field identifier